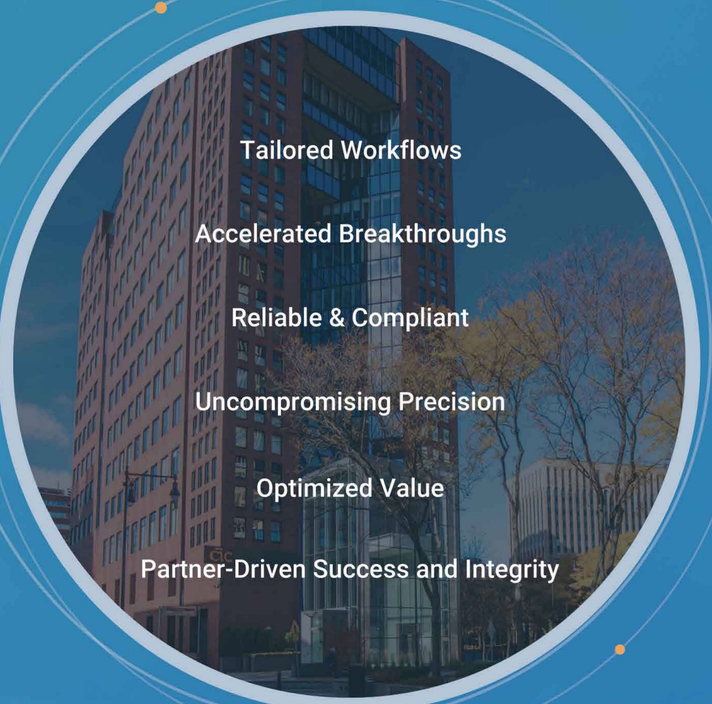
VELSSON
AN INNOVEL COMPANY



Tailored Workflows

Accelerated Breakthroughs

Reliable & Compliant

Uncompromising Precision

Optimized Value

Partner-Driven Success and Integrity

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VGLSSON
AN INNOVEL COMPANY

VELSSON Incubator Products

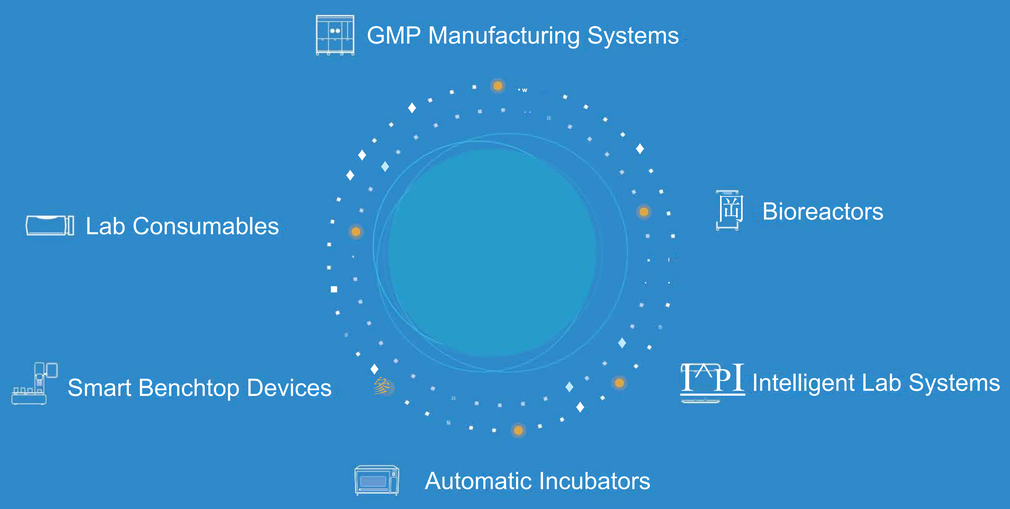
Elevate Performance, Accelerate Discovery -
Customizable Manual & Automated Laboratory Incubators

Solution Provider of Intelligent Research & Production

Intelligence of Research and Production

Large Scale Automation

Optimization of Quality & Cost



Make things Smart and Simple!

Q ■ For purification, sample precipitation, and similar applications

- Customized forced cooling module with low temperature control

InnoShaker™ Star

Automatic Shaker Incubator

Large scale & Automatic incubation of CHO-S/K1/M, sf9, hek293 and many other cell lines.

InnoShaker Star	Remote Monitoring	Shaker	Temperature Range	Humidity	Refrigeration	CO2	Tri-Gas
500ASWC	●	1 -250 rpm	31-37°C	●		●	
500ASC	●	1 -250 rpm	31-37°C			●	
500AS	●	1 -250 rpm	31-37°C				
500ASFC	●	1 -250 rpm	4-37°C		●	●	
500ASWCN	●	1 -250 rpm	31-37°C	●		●	●
Custom	●	1-250 rpm	●	●	●	●	●

Dimension (W*H*D)	157*95*103 (cm) / 62*37*41 (inches)
Power Supply	AC220 50Hz & AC120 60Hz options
Capacity	Flask:5L*8,3L*12, 1L*20,500mL*30, 250mL*48, 50mL*150
Speed	1 250RPM (±1RPM)
Shaker Amplitude	26mm/50mm
Temperature	4-37°C(±0.2°C)
Humidity	Upto 90% (±1%)
CO_2	0-20% (±0.1%)
Automatic Control	Outer door & sliding table
Stacking	2
Consumables	Microplate, Tubes & Flasks

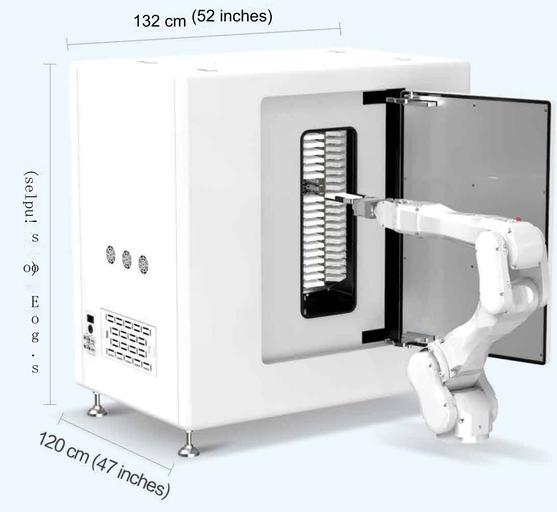
Innocubator™ Satellite

Large Scale Plate Incubator

Incubation of immune cells, E.Coli, CHO, hek293, & others,

Innocubator Satellite	Remote Monitoring	Shaker	Temperature Range	Humidity	Refrigeration	CO2	Tri-Gas
400ASWC	●	1° /s	4-40°C	●		●	
400ASC	●	1° /s	4-40°C			●	
400AS	●	1° /s	4-40°C				
400ASWCN	●	1° /s	4-40°C	●		●	●
Custom	●	1° /s	●	●	●	●	●

Dimension (W*H*D)	132*81.5*120 (cm) / 52*32*47 (inches)
Power Supply	AC220 50Hz & AC 120 60Hz options
Capacity	200PC Standard well plates
Speed	1/6RPM (1° /s, mild rotation for performance improvement)
Temperature	4 40°C(±0.2°C)
Humidity	Upto 90% (±1%)
CO_2	0-20% (±0.1%)



Q • For purification, sample precipitation, and similar applications

• Customized forced cooling module with

Q low temperature control

InnoShaker™ Planet

Manual Shaker Incubator

Large scale incubation of CHO-S/K1/M，sf9, hek293 and bacteria, & others.

Dimension (W*H*D)	124*67*78 (cm) / 48*26*31 (inches)
Power Supply	AC220 50Hz & AC120 60Hz options
Capacity	Flasks:5L*6 (consistent specifications)
Speed	1-350RPM (±1RPM)
Shaker Amplitude	26mm/50mm
Temperature	4 40°C(±0.2°C)
Humidity	Upto 90% (±1%)
CO_2	0-20% (±0.1%)
Communication	Modbus RTU or Modbus TCP/IP
Stacking	3
Consumables	Microplate, Tubes & Flasks

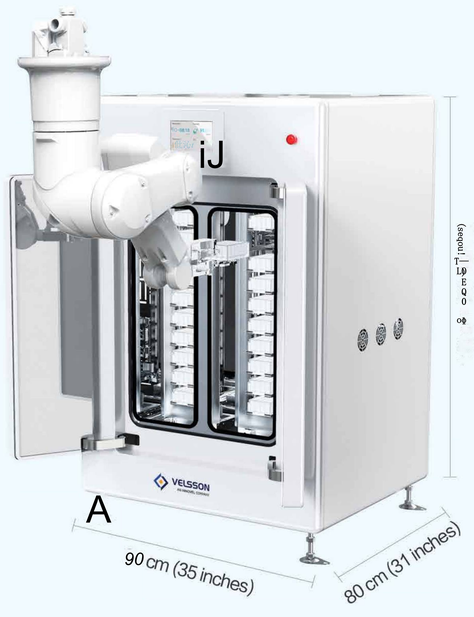
InnoShaker Planet	Remote Monitoring	Shaker	Temperature Range	Humidity	Refrigeration	CO2	Tri-Gas
300MSWC	●	1 -350 rpm	4-40°C		●	●	
300MSC	●	1 -350 rpm	4-40°C		●	●	
300MS	●	1 -350 rpm	4-40°C		●		
300MSFC	●	1 -350 rpm	4-40°C		●	●	
300MSWCN	●	1-350 rpm	4-40°C	●	●	●	●
Custom	●	1-350 rpm	●		●		●

InnoShaker™ Pulsar

Well Plate Shaker Incubator

Incubation of CHO-S/K1/M， E.Coli, sf9, hek293, & more.

	InnoShaker Remote Pulsar Monitoring	Shaker Range	Temperature Range	Humidity	Refrigeration	CO2	Tri-Gas
200ASWC	●	1-1,000 rpm	28-37°C	●		●	
200ASC	●	1-1,000 rpm	28-37°C			●	
200AS	●	1-1,000 rpm	28-37°C				
200ASWCN	●	1-1,000 rpm	28-37°C	●		●	●
Custom	●	1-1,000 rpm	●	●	●	●	●



Dimension (W*H*D)	90*130*80 (cm) / 35*51*31 (inches)
Power Supply	AC220 50Hz& AC120 60Hz options
Capacity	20PC standard well plates
Speed	1 1,000RPM (±1RPM)
Shaker Amplitude	3mm
Temperature	28 37°C(±0.2°C)
Humidity	Upto 90% (±1%)
CO_2	0-20% (±0.1%)

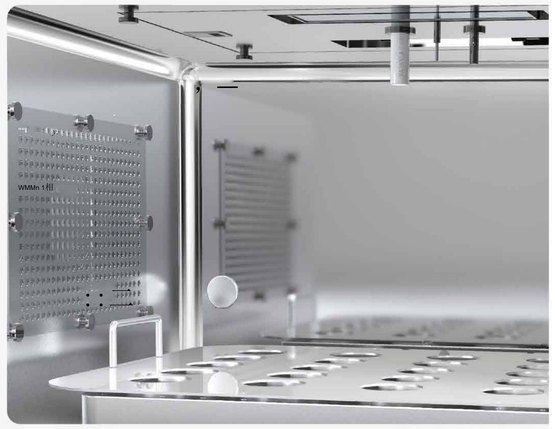
Technology Innovation

01

GMP validation：

.90°C & 120°C sterilization options

■ Easy-cleaning 8K inner cavity with big arc design



02

a) Fully automatic outer door with heating function
b) Fully automatic sliding table or shaker tower
c) Fully automatic pure water infusion module
d) Recirculating air flow with HEPA filter

Efficient Control

Direct motion driver, no dust, long life time.

01

Advanced Speed Control

- Maximum 250/350 rpm of InnoShaker™ Star and Planet
- Maximum 1,000 rpm of InnoShaker™ Pulsar (with 2 independent shaker towers)

02

Active Humidity Control by Ultrasonic Module

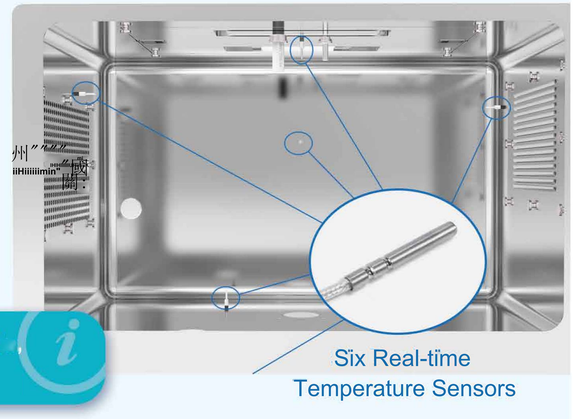
- The design without an evaporation pan for sterility
- Active humidity control for consistent experiment environment

Tips: To ensure safety, all moving parts (shaker table, slide table, outer door, etc) are equipped with interlocks.

03

Six-sensor Temperature Control

31°C 40°C precision control for consistent experimental temperature



Large-scale Culture

Customizable Velsson automatic platform with multiple tandem incubators for large scale culture and process analytics workflows capable of 7 days and 24 hrs operation.

Advanced Functions

InnoShaker supports local and remote data connections. The local system adopts touchscreen or computer user interface while the remote system adopts browser user interface or network connections.

01

Local Touchscreen User Interface

Easy to use touch screen display and user interface

Real-time Alerts

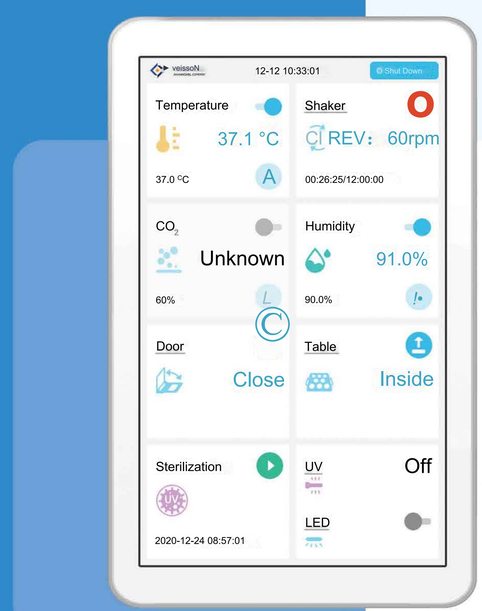
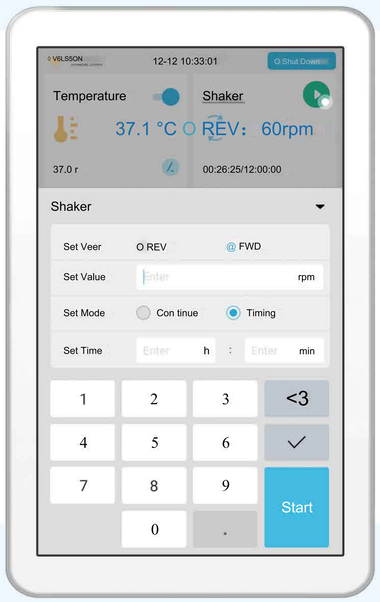
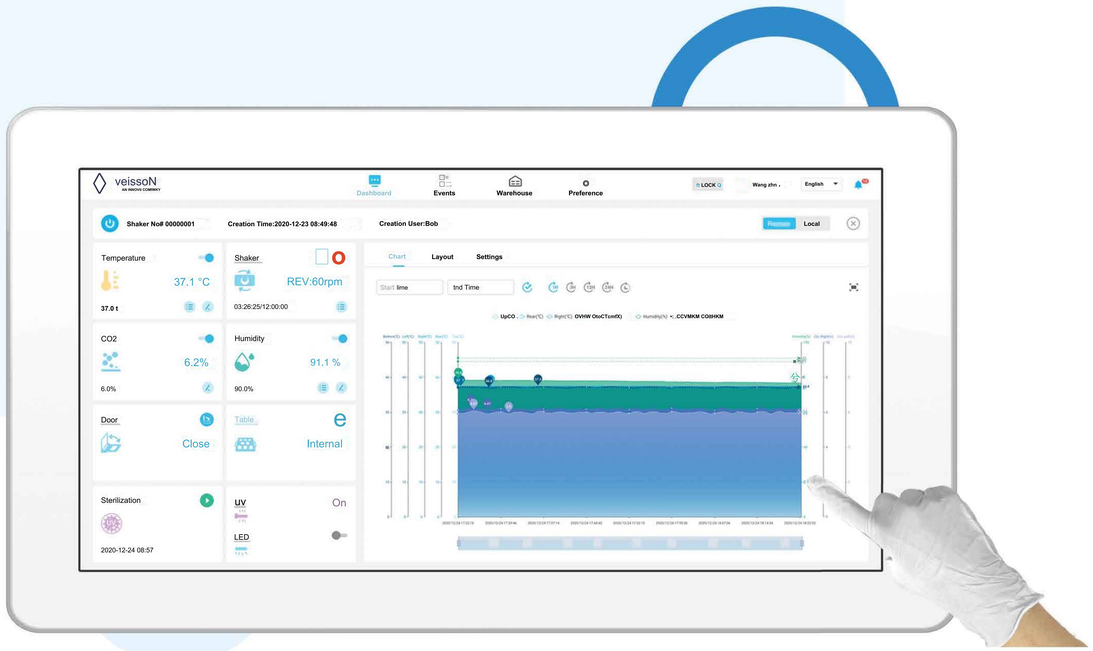
Warning of overheat, overspeed, sensor fault, open door， over humidity and water level.

Data Storage

Extensive event recording and customizable reporting options. Easy data transfer to other software.

02

Remote Monitoring Platform

Remote monitoring platform with intuitive user interface with tablet and PC accessibility for greater oversight.

The Platform enables different level of users and permissions for flexibility and provides total remote control capability with alarms, notifications, log query, equipment event history and extensive reporting functions. It provides tracebility and full data storage. The scalable platform can be easily configured as an array to accommodate monitoring of hundreds of incubators from one location.